145-21X

GM Techtronics

Outdoor motion detector 2 x 12 m

INSTALLATION MANUAL

DAITEM

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Recommendations

The user must not attempt to access the siren's internal parts, except areas described in this manual. If the user does access these parts, the product guarantee will be considered null and void and DAITEM shall not be held responsible for any problems. Touching the siren's internal parts and/or electronic components can damage the product. Furthermore, the siren is designed in such a way that these parts and components do not need to be accessed for operation or maintenance purposes.

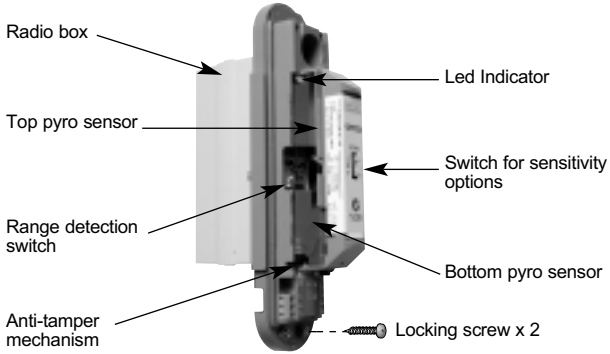
1. Introduction

IMPORTANT
- Some functions are only available with control panel version 2.0.0 or later (enter # 5 0 3 # # on the control panel keypad to check the version).
- Operating differences with respect to former ranges are described in the compatibility booklet available in the Daitem Installers section at www.daitem.co.uk .

The 2 x 12 m external motion detector has been specially designed to detect intruders before they have a chance to break in by monitoring the area outside the protected site.
Because both detection systems operate on either side of the detector and detection can be adjusted to provide narrow 4 to 24 m protection (2 x 12 m on each side), this is the ideal product for protecting a façade.
Its immunity to false alarms caused by sunlight or car headlights is backed up by its highly reliable pet-tolerant detection system (both detection beams have to be broken in order to trigger a prealarm or alarm). Its performance is further enhanced by a temperature compensation system that automatically adjusts and increases detection sensitivity when the outside temperature comes close to that of a human being (35°C - 37°C).

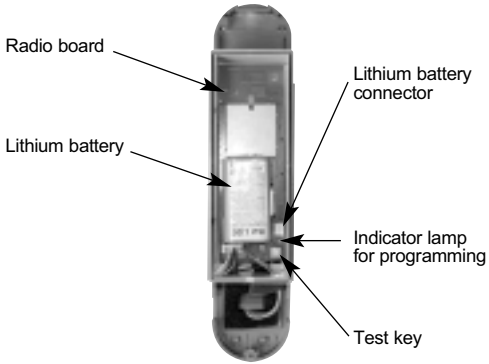
Back box

Detector module



Cover

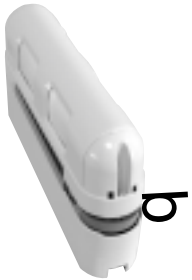
Detection unit with radio box open



2. Preparation

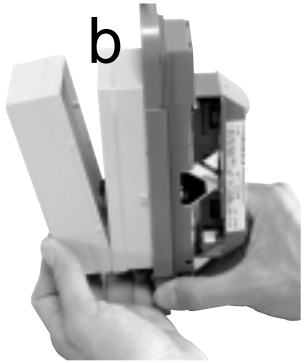
2.1 Opening

1. Remove the cover.



2. Remove the back box.

3. Open the radio box.



Guarantee sticker: remove the pre-cut part of the sticker and stick it to the guarantee certificate in the user manual s upplied with the control panel. If you are adding to an existing sys tem, use the guarantee certificate supplied with this product.

2.2 Power supply

Connect the battery. When switched on, the detector runs a self-test. If the self-test is:

- correct, the LED indicator lamp lights up for 2 sec.,
- incorrect, the LED indicator lamp flashes every 5 sec.

3. Programming

IMPORTANT: during recognition programming, the product to be programmed for use with the control panel does not need to be placed next to it. In fact, we recommend you place the product at a short distance from the control panel (at least 2 m away).

1. Change the control panel to installation mode if necessary by pressing the following sequence on the control panel keypad or the hardwired control interface

☐ ☐ ☐ ☐ # 2 # #

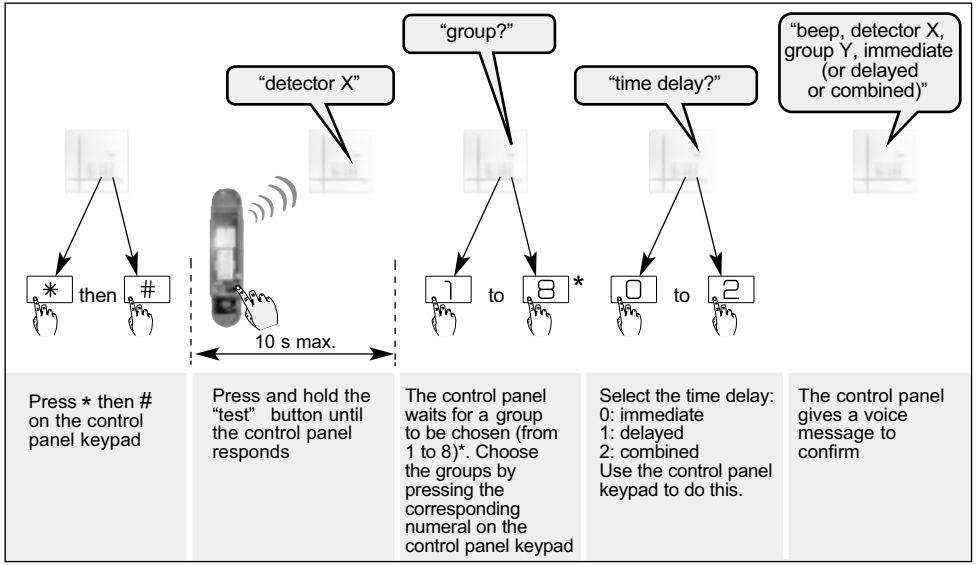
master code

then:

☐ ☐ ☐ ☐ # 3 # #

engineer installer code

2. Programme the detector as follows:


"group?"
"beep, detector X, group Y, immediate (or delayed or combined)"
"detector X"
"time delay?"
* then #
10 s max.
1 to 8 *
0 to 2
Press * then # on the control panel keypad
Press and hold the "test" button until the control panel responds
The control panel waits for a group to be chosen (from 1 to 8)*. Choose the groups by pressing the corresponding numeral on the control panel keypad
Select the time delay:
0: immediate
1: delayed
2: combined
Use the control panel keypad to do this.
The control panel gives a voice message to confirm

* Depends on the type of the control panel

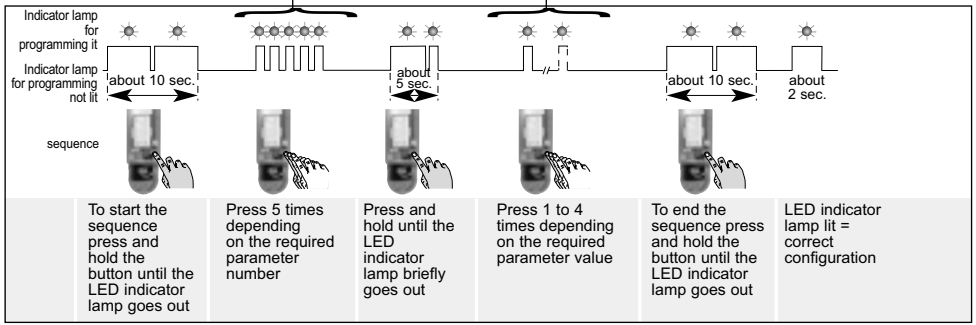
IMPORTANT: the control panel indicates there is an e rror by emitting 3 short beeps. When this happens programming should be carried out again.

4. Configuration

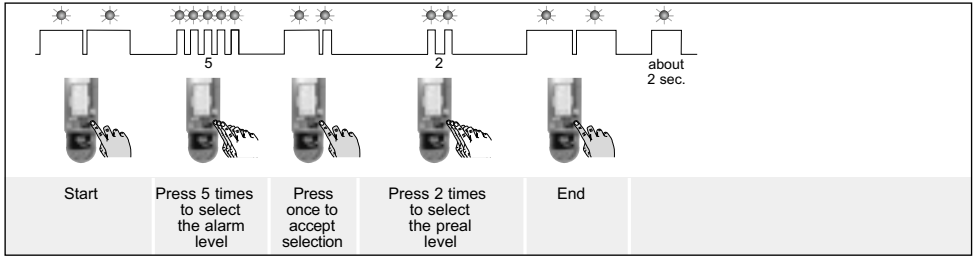
In factory configuration, the movement detector is configured in deterrence (for the reactions of the system see the control panel installation guide). It is possible to modify the level of alarm using the following sequence of parameter setting:

Sequence of parameter setting

Parameter n°	Alarm level	Parameter value
5	Intrusion	1
	Prealarm	2
	Deterrence	3 (factory setting)
	Warning	4 (the feature is available using control pa with 2.0.0 version software or later)


Indicator lamp for programming it
Indicator lamp for programming not lit
about 10 sec.
about 5 sec.
about 10 sec.
about 2 sec.
sequence
To start the sequence press and hold the button until the LED indicator lamp goes out
Press 5 times depending on the required parameter number
Press and hold until the LED indicator lamp briefly goes out
Press 1 to 4 times depending on the required parameter value
To end the sequence press and hold the button until the LED indicator lamp goes out
LED indicator lamp lit = correct configuration

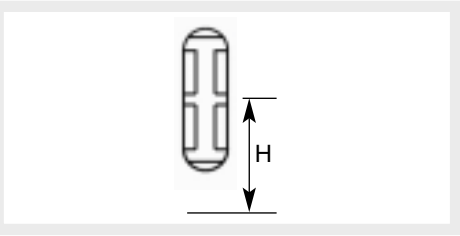
Configuration example: setting the detector for an alarm level when a prealarm is triggered: Parameter n° 5, Parameter value 2.



5. Installation precautions

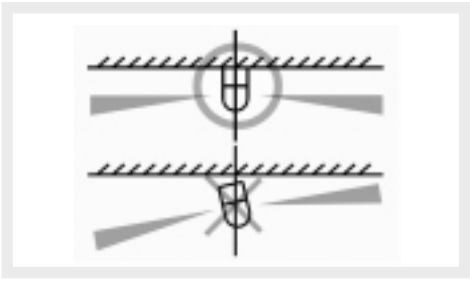
IMPORTANT: Make sure there is a distance of at least 2 meters between each product, except between two detectors.

The motion detector must be placed:
• with an installation height from 0.8 to 1.2 m high,

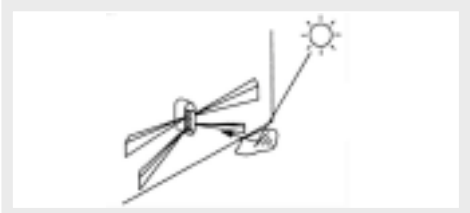


• perpendicular to the ground, so that the zone of higher detection is parallel to the ground. If the detector is tilted compared to the ground, the reliability of operation can be reduced,

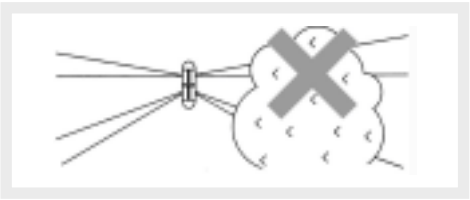
• so that the detection beams are parallel to the wall.



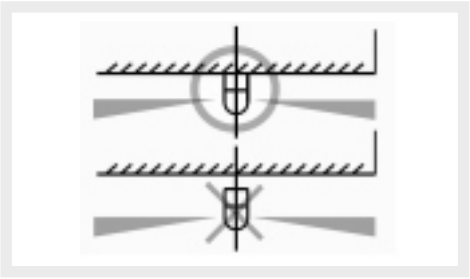
The motion detector must not be placed:
• in an area likely to receive direct sunlight or a very powerful light source,



• facing moving objects (branches, bushes, flags, etc),



• away from the wall (must not be used for infrared barrier type perimeter protection),

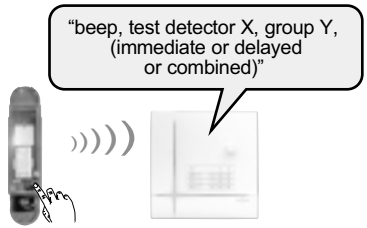


• directly on to a metal wall or close to sources of interference (electricity meters, etc.) or ventilation such as air-conditioning grilles.

6. Installation

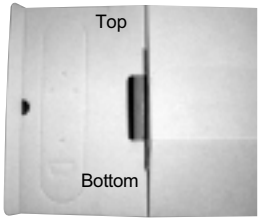
6.1 Testing the radio link

1. Before fixing the detector, place them close to the fixing point and check the radio link with the control panel.
   If the link with the control panel is correct, the control panel issues a voice message identifying the detector activated.
2. Press (> 5 sec.) the "test" button on the detector, the control panel issues the following voice message: "beep, test, detector X (customised message), group Y, (immediate or delayed or combined)".

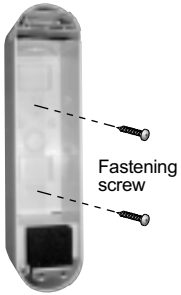


6.2 Fixing

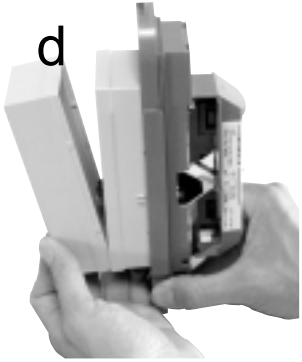
1. Drill the fixing holes using the drilling template provided in the packing box.



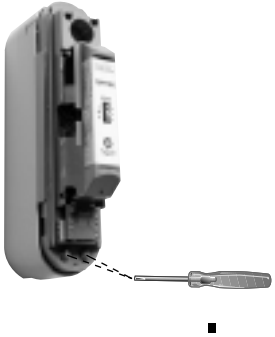
2. To fix the back box on the wall using wall plugs and suitable screws (not provided).



3. Close the radio box.



4. Position the detection module on the back box then tighten the screws.

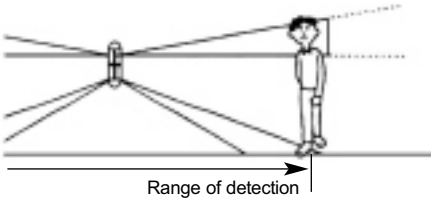


7. Configuration and adjustments of detection

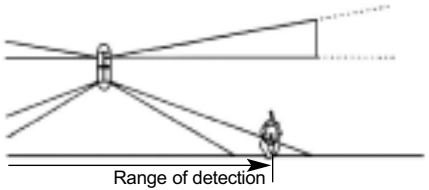
7.1 Range of detection

The higher beam remains always parallel on the grou nd. Being given that the beams (higher and lower) m ust be broken simultaneously to set off an alarm, the range of the detector is limited to the range of the lower beam.

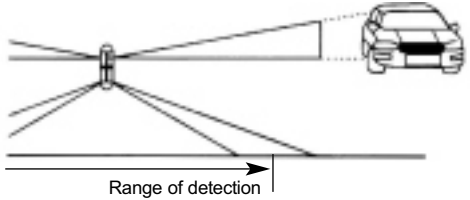
Detection: the lower and higher beams are broken



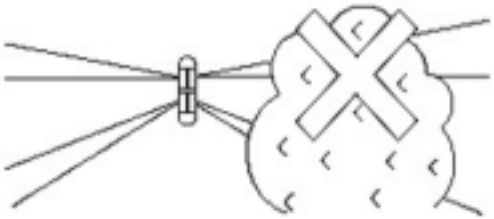
No detection: only the lower beam is broken

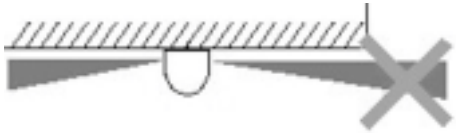


N detec tion: only the higher beam is broken



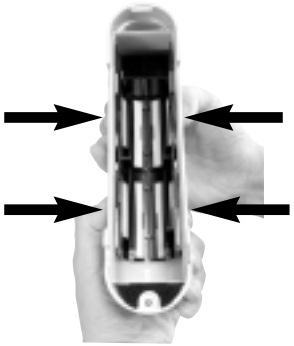
The right-hand and left-hand detection beams must b e adjusted separately according to the detection en vironment.





The lower beam is adjusted according to the positio n of the lens as the figures show it below.
To adjust the range of detection:

1. Separate the support from lens and the cover as indicated.



2. Adjust the detection ranges separately by sliding t he lenses vertically to marks A, B, C or D.

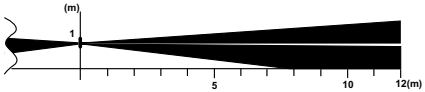
Height of installation 1 m

Position	Standard range (m)	Maximum range* (m)
A	12	10 - 15
B	8	6 - 10
C	5	4 - 6
D	2	1.5 - 3

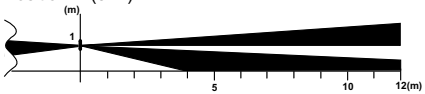
* The maximum range can vary from the standard values according to the environmental conditions.

IMPORTANT: the lenses must not be positioned crossways in the lens support.

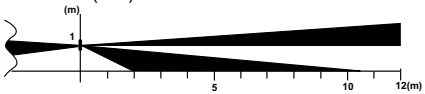
Position A (12 m)



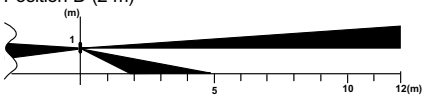
Position B (8 m)



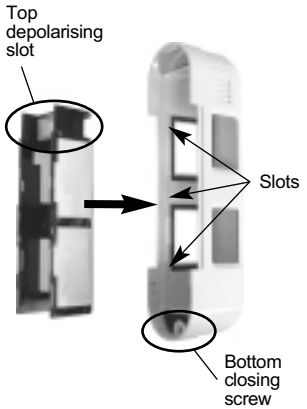
Position C (5 m)



Position D (2 m)



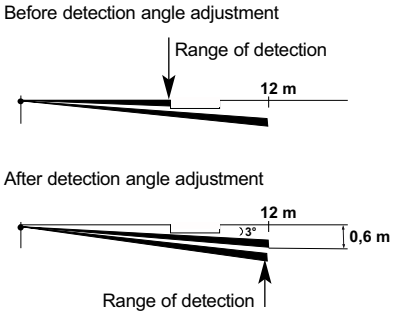
3. If you wish to adjust the detection angle horizontally, go to the next paragraph. Otherwise, put the lens support back in place. Check that it is held firmly on either side by the six cover slots.



7.2 Horizontal adjustment of the detection angle

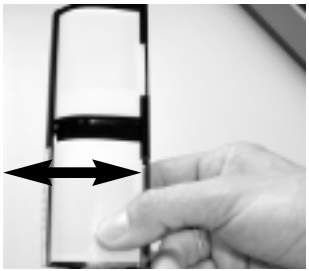
If there is an obstacle in the way of the detection beams, they can be horizontally offset by 3°.

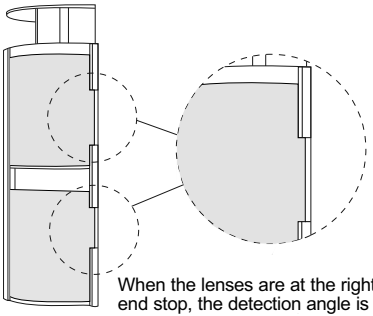
IMPORTANT: because an alarm is triggered when both the upper and lower beams are broken at the same time, the detection angle of both must be horizontally adjusted. Set the sensitivity setting to H in this case (see Adjustment of the sensitivity).



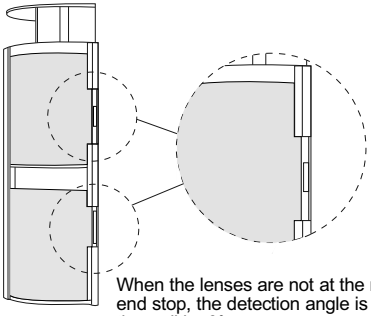
To adjust the detection angle:

1. Separate the support from lens and the cover (see 1.Range of detection).
2. Adjust the detection angles separately by sliding t he lenses horizontally.





When the lenses are at the right-hand end stop, the detection angle is 0°.



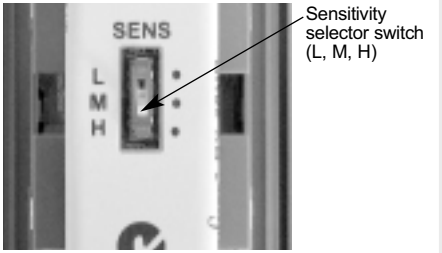
When the lenses are not at the right-hand end stop, the detection angle is offset from the wall by 3°.

3. Position the lens support back in place (see 3.Range of detection).

7.3 Adjustment of the sensitivity

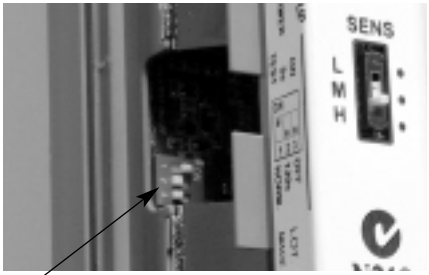
This adjustment makes it possible to adjust the sensitivity level of the detector.
For environmental conditions:
- difficult (wind, bad weather...), decrease the sensitivity(position L),
- standard sensitivity leave the switch in position M.

When the detection angle has been adjusted by 3° (see Horizontal adjustment of the detection angle), or if maximum sensitivity is required at the detection limit (at a distance of around 12 m), set sensitivity to H.



7.4 Adjustment of the operational

The adjustment of the options is done by 3 DIP swit ches located inside the detector.



IMPORTANT: if you position dip-switch 2 or dip-switch 3 on ON, this will lower the battery life.

	Detector in TEST mode , LED lights during each detection.
	Detector in NORMAL mode, LED remains off (except if the DIP switch n° 3 is on ON). The period between radio transmissions depends on the position of DIP switch n° 2.
	5 sec. battery saving timer radio transmissions are limited to a 5 second timer interval even if multiple detections occur.
	120 sec. battery saving timer Radio transmissions are limited to a 120 second timer interval even if multiple detections occur. Position recommended in the event of frequent passage inside the zone of detection.
	Selecting LED indicator status The LEDs light up on detection in both test and normal operating mode.
	Selecting LED indicator status The LEDs light up on detection in test mode only. Position recommended in the event of frequent passage inside the zone of detection.

GB

8. Operating test

8.1 Detection zone test

1. Put DIP switch 1 in the ON position.
2. Close the detector cover.
3. Switch the control panel to test mode:

engineer installer code

4. Check the area of detection using the indicator LED and adjust the detector if need be. With each detection the control panel issues the voice message “Beep, deterrence detector X” (depending on the configuration).
5. Switch the control panel back to installation mode, press:

engineer installer code

6. Reopen the cover, to put DIP switch 1 to OFF.
   Close the detector cover and tighten the locking screw.

8.2 Real test

1. Switch the control panel to user mode:

engineer installer code

2. Put your control panel in Total Arm mode.
3. Wait for the exit time delay.
4. Cross over the protected area and check that the control panel responds (see your control panel’s installation manual).

9. Maintenance

9.1 Fault indication

The control panel takes battery faults, anti-tamper faults and radio faults on the detector into account.

Battery fault
Following a system command, the control panel issues the following voice message: “beep, fault, battery, detector X” .

Anti-tamper fault
Following a system command, the control panel issues the following voice message: “beep, fault, anti-tamper, detector X” .

Radio fault
Following a system command, the control panel issues the following voice message: “beep, fault, radio, detector X” .

9.2 Changing the battery

IMPORTANT: the detector’s configuration is saved when the battery is changed.

1. Switch the control panel to installation mode and ask the master user to press:

master code

then press:

engineer installer code

2. Open the case of the detector (see § Opening the detector).
3. Replace the used lithium batery.

IMPORTANT: the test button makes it possible to chec k if the battery is OK. The indicator on the radio board lights red when the button is pressed.

4. Switch the control panel back to user mode, press:

[ ][ ][ ][ ][#][ ][#][#]

engineer installer code

5. Perform another operating test (see § Operating test).

- The lithium battery pack must be replaced by the same type of pack with the same technical characteristics, i.e. (3.6 V - 4 Ah).
- We advise you to use the DAITEM BatLi05 pack available in the catalogue in order to guarantee individual safety and equipment reliability.
- Dispose of the waste lithium power pack in an appropriate recycling bin.

10. Technical data

Specifications	Outdoor motion detector 2 x 12 m
Detection	infrared
Coverage	2 x 2 to 12 m adjustable beam assemblies
Use	inside/outside
Power supply	3.6 V - 4 Ah BatLi05 lithium battery
Battery life	5 years in normal conditions of use (110 detections max./day)
Radio links	TwinBand® 400/800 MHz
Fixing methods	wall
Operating temperature	- 20°C a + 50°C
Degrees of mechanical protection	IP 55
Anti-tamper protection	against opening
Dimensions L x W x H	56 x 128 x 235 mm
Weight	596 g

Waste processing of electrical and electronic devic es at the end of their service life (Applicable in European Union countries and other E uropean countries with a waste collection system). Used on products or product packaging, this symbol indicate s that the product must not be thrown out with household waste. It must be taken to a waste collec tion point for electrical and electronic product re cycling. When you make sure that this product is di s-posed of in the most appropriate manner, you are he lping to protect the environment and human health. If you would like additional information concerning the recycling of this product, please contact your town /city council, nearest waste collection centre or t he shop where you bought the product.

CE

DÉCLARATION DE CONFORMITÉ

FR
13

Fabricant : Hager Security SAS
Adresse : F-38926 Crolles Cedex - France

Type de produit : Détecteur de mouvement extérieur 2 x 12 m
Marque : Daitem
Nous déclarons sous notre seule responsabilité que le produit auquel se réfère cette déclaration est conforme aux exigences essentielles des directives suivantes :
• Directive R&TTE : 99/5/CE
• Directive Basse Tension : 2006/95/CE
• Directive ROHS : 2002/95/CE
conformément aux normes européennes harmonisées suivantes :

Références produits	145-21X
EN 300 220-2 V2.1.2	X
EN 300 330-2 V1.3.1	
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	

Ce produit peut être utilisé dans toute l'UE, l'EEA et la Suisse

Crolles, le 01.04.2013 Signature :
Patrick Bernard
Directeur Recherche et Développement

Document non contractuel, soumis à modifications sans préavis.

CE

DICHIARAZIONE DI CONFORMITÀ

IT
13

Fabbricante: Hager Security SAS
Indirizzo: F-38926 Crolles Cedex - France

Tipo di prodotto: Rivelatore PET immune esterno 2 lati x 12 m
Modello depositato: Daitem
Dichiariamo sotto la nostra responsabilità che i prodotti cui questa dichiarazione si riferisce sono conformi ai requisiti essenziali delle seguenti Direttive Europee:
• Direttiva R&TTE: 99/5/CE
• Direttiva Bassa Tensione: 2006/95/CE
• Direttiva ROHS: 2002/95/CE
in ottemperanza alle seguenti Normative Europee armonizzate:

Codice dei prodotti	145-21X
EN 300 220-2 V2.1.2	X
EN 300 330-2 V1.3.1	
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	

Questi prodotti possono essere utilizzati in tutta l'UE, i paesi di EEA, Svizzera.

Crolles, le 01.04.2013 Firmato:
Patrick Bernard
Direttore Ricerca e Sviluppo

Documento non contrattuale, soggetto a modifiche senza preavviso.

CE

KONFORMITÄTSERKLÄRUNG

DE
13

Hersteller: Hager Security SAS
Adresse: F-38926 Crolles Cedex - France

Gerätetyp: IR-Bewegungsmelder (Außenbereich)
Marke: Daitem
Diese Produkte entsprechen den grundsätzlichen Anfo rderungen der folgenden europäischen Richtlinien, und zwar:
• Richtlinie R&TTE: 99/5/EG
• Niederspannungsrichtlinie: 2006/95/CE
• Richtlinie ROHS: 2002/95/CE
konform mit folgenden europäischen harmonisieren No rmen:

Produktreferenz	145-21X
EN 300 220-2 V2.1.2	X
EN 300 330-2 V1.3.1	
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	

Dieses Produkt darf in der EU, dem EWR und der Schw eiz betrieben werden.

Crolles, den 01.04.2013 Unterschrift:
Patrick Bernard
Leiter Forschung & Entwicklung

Hinweis: Änderungen der technischen Daten und des Designs aufgrund von Produktverbesserungen bleiben uns ohne Ankündigung vorbehalten. Nachdruck, auch auszugsweise, nur mit ausdrücklicher Genehmigung des Herstellers.

CE

DECLARACIÓN DE CONFORMIDAD

ES
13

Fabricante: Hager Security SAS
Dirección: F-38926 Crolles Cedex - France

Tipo de producto: Detector de exterior 2 x 12 m
Marca: Daitem
Declaramos bajo nuestra responsabilidad que los pro ductos a los que se refiere esta declaración están conformes con las exigencias esen ciales de las directivas siguientes:
• Directiva R&TTE: 99/5/CE
• Directiva Baja Tensión: 2006/95/CE
• Directiva ROHS: 2002/95/CE
De acuerdo con las siguientes normas europeas harmo nizadas:

Ref. producto	145-21X
EN 300 220-2 V2.1.2	X
EN 300 330-2 V1.3.1	
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	

Este producto puede ser utilizado en toda la UE, la EEA y Suiza

Crolles el 01.04.2013 Firmado:
Patrick Bernard
Director Investigación y Desarrollo

Documento no contractual, supeditado a posibles mod ificaciones sin preaviso.

CE

GELIJKVORMIGHEIDSVERKLARING

NL
13

Fabrikant: Hager Security SAS
Adres: F-38926 Crolles Cedex - France

Soort produkt: Externe bewegingsdetector 2 x 12 m • Merk: Daitem
Wij verklaren op onze eigen verantwoordelijkheid dat het product waarop deze gelijkvormigheidsverklaring betrekking heeft, beantwoordt aan de fundamentele voorschriften van de volgende richtlijnen:
• Richtlijn betreffende Radioapparatuur en telecommunicatie-eindapparatuur (R&TTE): 99/5/CE
• Richtlijn betreffende de Laagspanning: 2006/95/CE
• Richtlijn ROHS: 2002/95/CE
Volgens de volgende geharmoniseerde Europese normen :

Productreferentie	145-21X
EN 300 220-2 V2.1.2	X
EN 300 330-2 V1.3.1	
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	

Dit product mag gebruikt worden in de Europese Unie , de EEZ en in Zwitserland.

Crolles, op 01.04.2013 Handtekening:
Patrick Bernard
Directeur Research & Ontwikkeling

Niet-contractueel document onderworpen aan wijzigingen zonder voorafgaan de kennisgeving.

CE

DECLARATION OF CONFORMITY

GB
13

Manufacturer: Hager Security SAS
Address: F-38926 Crolles Cedex - France

Product type: Outdoor motion detector 2 x 12 m
Trade mark: Daitem
We declare under our sole responsibility that the product to which this declaration relates is compliant with the essential requirements of the following directives:
• R&TTE Directive: 99/5/EEC
• Low voltage directive: 2006/95/EC
• Directive ROHS: 2002/95/EC
in compliance with the following harmonised European standards:

Products code	145-21X
EN 300 220-2 V2.1.2	X
EN 300 330-2 V1.3.1	
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	

This product can be used in all EU, EEA Countries and Switzerland.

Crolles, 01.04.2013 Signature:
Patrick Bernard
Director of Research and Development

Non-contractual document, may be modified without prior notice.

DAITEM

804942/C - 09.2013